5) Collision

Reporter: Easy Science
Opponent: Switzerland
Problem

5. Collision: A highly elastic Super Ball collides with a rigid surface. How can one determine the collision time? Propose various techniques and compare the experimental results.
Outline of Report

- Interpretation
- Theory
- Calculations
- Measurements
- Conclusion
- Video
- Experiment

- Good
- Ok
- Needs Improvement
Strengths and Weaknesses

Strengths
• Video
• Graphics
• Different surfaces tested

Weaknesses
• Only calculated fall time
• Does not consider elastic or inelastic in calculations
• Does not use super ball
• Scale measurement
• Balls not consistent
• Human error
Discussion